



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/734,139

12/15/2003

Kyoung-Weon Na

46114

9254

1609

7590

10/23/2007

ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.
1300 19TH STREET, N.W.
SUITE 600
WASHINGTON,, DC 20036

EXAMINER

HOM, SHICK C

ART UNIT

PAPER NUMBER

2616

MAIL DATE

DELIVERY MODE

10/23/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/734,139	NA ET AL.	
	Examiner	Art Unit	
	Shick C. Hom	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) 14-48 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-10,12 and 13 is/are rejected.
- 7) ☒ Claim(s) 3 and 11 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-13 in the reply filed on 8/6/07 is acknowledged.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because of legal phraseology, such as "means." Correction is required.

See MPEP § 608.01(b).

Claim Objections

Art Unit: 2616

4. Claim 10 is objected to because of the following informalities: In claim 10 line 2, the words "a local area broadcasting program" seem to refer back to ---the at least one local area broadcasting program--- recited in claim 7 line 8. If this is true, it is suggested changing "a local area broadcasting program" to ---the at least one local area broadcasting program---. In claim 10 lines 2-3, the words "an adaptation field" seem to refer back to ---the adaptation field--- recited in claim 8 line 2. If this is true, it is suggested changing "an adaptation field" to ---the adaptation field---. Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

Art Unit: 2616

claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-2, 4-10, 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hobrock et al. (2004/0247122) in view of Asano (7,197,035).

Regarding claims 1-2, 4, 7, 9:

Hobrock et al. disclose an apparatus for servicing both a wide area broadcasting and a local area broadcasting in a digital multimedia broadcasting system, the apparatus comprising:

means for transmitting program association tables and program map tables in a form of transport stream packets (paragraph 0032 recite transmission of packet streams comprising the program association table PAT, and the program map table PMT), wherein

each of the program association tables includes packet identifications of program map tables (paragraphs 0035 recite the PAT identifies packet identifier PIDs associated with PMTs which in turn identify PIDs of elementary stream ES of tables describing each program), and

each of the program map tables includes detailed information about corresponding local area broadcastings; and wherein each of the transport stream packets includes a packet header, and a payload, the packet header including a packet identification which indicates a broadcasting station and types of programs, each of the types of programs indicating at least one of video, audio, and text data (paragraphs 0033 recite the PMT defines the set of packet identifiers PIDs associated with a program, e.g. audio video, clearly anticipate the detailed information in the PMT and the types of programs indicating at least one of video, audio, and text data as in claims 2, 9).

Regarding claims 5-6, 12-13:

Hobrock et al. disclose wherein each of the program association tables is transmitted through a common channel (paragraph 0028 recite the signaling tables being transmitted via an independent control channel) and each of the program map tables is transmitted through a broadcasting data channel and wherein each of the program association tables and the program

Art Unit: 2616

map tables are transmitted through a broadcasting data channel (paragraphs 0003-0004 recite broadcasting channel for receiving request for programming and streaming program material to subscriber).

Regarding claim 8:

Hobrock et al. disclose wherein each of the transport stream packets includes a packet header, and an adaptation field or a payload, each of the adaptation field and the payload having a variable length (paragraph 0034 recite the use of variable length packets).

Regarding claim 10:

Hobrock et al. disclose wherein a location identification code of a local area broadcasting program is recorded in an adaptation field of each of the program map tables (paragraph 0035 recite the adaptation fields and the PMT which identify the PIDs).

Hobrock et al. disclose all the subject matter of the claimed invention with the exception of whereby the program association tables included packet identifications of program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program as in claims 1 and 7.

Art Unit: 2616

Asano from the same or similar fields of endeavor teach that it is known to provide whereby the program association tables included packet identifications of program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program (col. 16 line 55 to col. 17 line 8 recite the connection state table indicating the state of a connection having a FIN(WAN) and a FIN (LAN) field to indicate whether the packet is received from the WAN side or the LAN side clearly reads on the packet identifications of the program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program as in claims 1 and 7.

Thus, it would have been obvious to the person having ordinary skill in the art at the time the invention was made to provide whereby the program association tables included packet identifications of program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program as taught by Asano in the communications apparatus of Hobrock et al.

The program association tables including packet identifications of program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program can be implemented by using the process of

Art Unit: 2616

identifying wide area broadcasting program and local area broadcasting program of Asano in the system of digital multimedia broadcasting of Holbroack et al.

The motivation for providing whereby the program association tables included packet identifications of program map tables corresponding to at least one wide area broadcasting program and at least one local area broadcasting program as taught by Asano in the digital multimedia broadcasting system of Hobrock et al. being that it provides the desirable added advantage of connections to a WAN and a LAN and more efficiency for the system since the system can better identify wide area broadcasting program and local area broadcasting program using a known technique.

Allowable Subject Matter

7. Claims 3 and 11 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2616

Sull et al. disclose techniques for navigating multiple video streams.


9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shick C. Hom whose telephone number is 571-272-3173. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pham Chi can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SH

SH


CHI PHAM
SUPERVISORY PATENT EXAMINER

10/22/07